



**Rocky Mountain
Remediation Services, L L C**
protecting the environment

Rocky Flats Environmental Technology Site
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000105965 1F100

CORRES CONTROL
LTR NO

September 10, 1999

99-RF-03612

99-RF-03612

DIST	LTR	ENC
Burdick W J	X	X
Crawford A C		
Cypher N P		
Dunstan L A		
Fiehweg R E		
Guinn L		
Huffman F M		
Hughes F P		
Jenkins K		
Law E D	X	X
Motyl K M	X	X
Primrose A L		
Rukavina F		
Wheeler, M	X	X

SQUIBAG X X
TRUCK C X X

Corres Control X X
RMRS CC X X
Traffic

CLASSIFICATION
UCNI
UNCLASSIFIED X X
CONFIDENTIAL
SECRET

Authorized Classifier
Signature

DOCUMENT CLASSIFICATION
REVIEW WAYER PER

Exemption # CEX-072-99

Date

IN REPLY TO RFP CC NO

ACTION ITEM STATUS
__ OPEN __ CLOSED
__ PARTIAL

LTR APPROVALS

Ong & Typist Initials

SEP 1999
RECEIVED
RECORDS CENTER

John A Hill
Environmental Systems and Stewardship
Kaiser-Hill Company, L L C
Building T130C

RECENT WATER MONITORING RESULTS AT RFCA POINT OF EVALUATION SW093 - MW-118-99

The purpose of this letter is to provide notification of water-quality monitoring results at the Rocky Flats Cleanup Agreement (RFCA) Point of Evaluation (POE) surface-water monitoring station location SW093 in Walnut Creek above Pond A-1

An elevated 30-day average value for plutonium has been observed at SW093 during July 1999 Results are presented in Table 1

Table 1 30-Day Average Calculated Value for RFCA POE SW093 Monitoring Location

Analyte	Initial Date of 30-day Average >0.15pCi/L	Initial Reportable 30-day Avg Value (pCi/L)
Plutonium	7/25/99*	0 155

*No 30-day values have been calculated for dates after 7/25/99 Calculated values after 7/25/99 will be determined upon receipt of analytical results for subsequent SW093 samples

Monitoring Results Downstream from SW093

Water flowing from SW093 during this period was detained in Pond A-3 and batch discharged to Pond A-4 on August 2-9, 1999 and subsequently detained for pre-discharge sampling and analysis before being direct discharged to Walnut Creek A pre-discharge sample of Pond A-4 collected on August 10, 1999 (in preparation for the August 27 through September 7 direct discharge) gave analytical results of 0 009 pCi/L for plutonium

Results for three composite samples collected at RFCA Point of Compliance (POC) GS11 (Pond A-4 Outlet) during this discharge have not been returned from the laboratories Further downstream, results for three composite samples collected at RFCA POC GS03 during this same Pond A-4 discharge have also not been returned from the laboratories

ADMIN RECCRD

SW-SW-A-003375

Monitoring Results Upstream from SW093

Analytical results received to-date from the July through August period for upstream locations are summarized in Table 2. Water sampled at SW093 originates from the northern portion of the Site's PA and North Walnut Creek where several RFCA Performance and Source Location monitoring stations sample the upstream flows.

TABLE 2 Upstream from SW093 Individual Sample Results

Monitoring Station	Monitoring Station Location	Analyte	Sample Period	Value (pCi/L)
GS32	Culvert north of Solar Ponds draining B779 Area	Plutonium	7/24/99	11.5
GS32	Culvert north of Solar Ponds draining B779 Area	Plutonium	7/31/99	Pending Results
GS32	Culvert north of Solar Ponds draining B779 Area	Plutonium	8/28/99	Pending Results
SW118	North Walnut Creek 560 feet above Portal 3	Plutonium	8/1 – 8/13/99	-0.001
SW118	North Walnut Creek 560 feet above Portal 3	Plutonium	8/13 –	Sampling in progress

Water-Quality Results Analysis

Reportable 30-day average values calculated at SW093 for July (see Attachment 1) have been observed at this location in the past (see Attachment 2). Recall that the *Progress Report #3 to the Source Evaluation and Mitigating Plans for Walnut Creek* and the *Final Report to the Source Evaluation and Mitigating Plans for Walnut Creek* RFCA source evaluation did not identify discrete source area(s) upgradient of monitoring station SW093.

RFCA requires the Site respond to these elevated results. RMRS proposes that the course of action include:

- (1) Continuing observation,
- (2) Implementation of scheduled remediation projects, and
- (3) Continuing progress on the Actinide Migration Evaluations.

In consultation with your staff, we may choose to augment or modify these actions to align with the Site Closure plan or to complete an abbreviated source evaluation effort.

John A Hill
September 10, 1999
MW-118-99
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If you have any questions on this transmittal, please contact Keith Motyl at extension 2172 or Bill Burdelik at extension 5126



Martin Wheeler
Vice President, Waste Operations
Rocky Mountain Remediation Services, L L C

KMM slm

Attachments

- 1 Table of 30 day average calculated values for Pu and Am from July 14 through July 15, 1999
- 2 DOE Gaging Station SW093 30 Day Volume-Weighted Moving Averages for Pu-239, 240 and AM-241 Activities

cc
R C Nininger Kaiser-Hill Bldg T130C

30-DayAves

Date	Daily Gals	Pu-239/240 RSLT	Pu-239/240 pCi	Pu-239/240 30dAvg	Am-241 RSLT	Am-241 pCi	Am-241 30dAvg
7/2/99	42822	0 005	810	0 019	0	0	0 017
7/3/99	42567	0 005	806	0 019	0	0	0 017
7/4/99	41734	0 005	790	0 019	0	0	0 018
7/5/99	42311	0 005	801	0 019	0	0	0 018
7/6/99	49290	0 005	933	0 018	0	0	0 018
7/7/99	45964	0 005	870	0 018	0	0	0 018
7/8/99	50665	0 005	959	0 018	0	0	0 018
7/9/99	46942	0 005	888	0 019	0	0	0 017
7/10/99	44666	0 005	845	0 020	0	0	0 017
7/11/99	45856	0 005	868	0 022	0	0	0 016
7/12/99	45658	0 005	864	0 022	0	0	0 015
7/13/99	44642	0 005	845	0 023	0	0	0 015
7/14/99	46983	0 005	889	0 020	0	0	0 014
7/15/99	44939	0 312	53070	0 019	0 069	11737	0 011
7/16/99	95463	0 312	112734	0 035	0 069	24932	0 002
7/17/99	47726	0 312	56361	0 045	0 069	12464	0 006
7/18/99	56467	0 312	66883	0 056	0 069	14747	0 009
7/19/99	46416	0 312	54813	0 065	0 069	12122	0 011
7/20/99	45444	0 312	53665	0 075	0 069	11868	0 014
7/21/99	44728	0 312	52820	0 084	0 069	11681	0 016
7/22/99	47823	0 312	56475	0 094	0 069	12490	0 018
7/23/99	46358	0 312	54746	0 104	0 069	12107	0 021
7/24/99	303790	0 312	358751	0 144	0 069	79339	0 023
7/25/99	67019	0 312	79144	0 155	0 069	17503	0 032
7/26/99	50206	0			0		0 034
7/27/99	66658						
7/28/99	70529						
7/29/99	194402						
7/30/99	366741						

**POE Gaging Station SW093: 30-Day Volume-Weighted Moving Averages
for Pu-239,240 and Am-241 Activities (10/1/96 - 7/25/99)**

